USSR/General Problems of Pathology - Tumors. Experimental

Ü

Therapy. : Ref Zhur Biol., No 5, 1959, 22806

Abs Jour

Author Inst

: Gluzman, F.A. The Influence of Various Methods of Hypothermia on the

Title

Development of Experimental New Formation.

Orig Pub

: Vrachebn. delo, 1957, No 12, 1341-1342

Abstract

The experiments were conducted on the rabbit carcinoma of Brown-Pierce, rats' tumors and induced carcinoma of mice, induced by 9, 10-dimethyl-1,2-benzanthracene. It was noted that in hypothermia by means of ether and ice, the growth of transplanted tumors and induced carcinoma of the skin is retarded and metastasing decreases. In early removal of the tumor the degree of development of recurrences is smaller. In hypothermia according to the method of Dzhiayya (carbon dioxide and cold), during the

Card 1/2

GLUZMAN, F.A. [Hluzman, F.A.], dots.

Hibernation therapy in the case of premature infants; a survey of the literature. Ped., akush. i gin. 19 no.3:60-61 157. (MIRA 13:1)

1. Kafedra patologicheskoy fiziologii (sav. - deystvitel'nyy chlen AMN USSR prof. M.M. Sirotinin) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. akad. A.A. Bogomol'tsa (direktor dots. I.P. Alekseyenko). (INFANT (PREMATURE)--CARE AND HYGIENE) (HIBERNATION, ARTIFICIAL)

GIUZMAN, F.A., dotsent, red.; LIKHTENSHTEIN, Ye.I., red. WOITSHTEYN, A.D., tekhred.

[Physiology and pathology of the cardiovascular system in clinical treatment and experiment; a collection of papers] Fisiologia i patologia serdechne-soudisted sistemy v klinike i eksperimente; sbornik trudev. Kiev, Gos.med. izd-ve USSR, 1958. 444 p. (NIRA 12:6)

1. Kiyev. Meditsinukiy institut. (CARDIOVASCULAR SYSTEM--DISEASES)

GLUZMAN, F. A., Doc Med Sci (diss) -- "Problems of the reactivity of the organism in malignant growth". Kiev, 1959. 30 pp (Kiev Order of Labor Red Banner Med Inst im Acad A. A. Bogomolets), 250 copies (KL, No 22, 1959, 120)

GLUZMAN, F.A. dotsent Hypophysis-adrenal cortex system and malignant growth. Vrach. delo no.2:165-167 1 59. 1. Kafedra patologicheskoy fiziologii (zav. - deystv.chlen ANN SSSR, prof.N.N.Sirotinin) Kiyevskogo meditsinskogo (ADRENAL CORTEX) (CANCER) (PITUITARY BODY)

> CIA-RDP86-00513R000615510002-1" APPROVED FOR RELEASE: 09/19/2001

PEYSAKHOVICH, Iosif Mironovich, prof.; KOL'NER, Rakhill' Yul'yevna; KORENEV-SKIY, Leonid Ivanovich; LEVCHUK, Georgiy Antonovich; MAZURENKO, Ni-kolay Petrovich; POLONSKIY, Boris Leonidovich; SAVITSKIY, Vasiliy Nikolayevich; TELENGATOR, Yakov Moisyevich; UNANSKIY, Yulian Aleksan-drovich; GLUZMAN, F.A., red.; RAYZ, A.L., tekhn. red.

THE HONOR BELLEVIEW FOR THE PROPERTY OF THE PR

[Drug therapy for malignant tumors] Khimioterapiia zlokachestvennykh opukholei. Kiev, Gos. med. izd-vo USSR, 1961. 304 p.
(MIRA 14:11)
(CANCER)

GLUZMAN, F.A. [liluzman, F.A.]

Effect of cortisone on connective tissues in case of malignant growths. Fiziol. zhur. [Ukr.] 7 no.6:824-829 N.D '61.

1. Kafedra patologicheskoy fiziologii Kiyevskogo meditsinskogo instituta im. akad. A.A. Begomcl'tsa. (CORTISONE) (CONNECTIVE TISSUES)

(CANCER)

(CANCER)

FEDOROV, Ivan Ignat'yevich, prof.; SIROTIN, N.M., prof., retsenzent; GLUZMAN, F.A., red.; GITSHTEYN, A.D., tekhm. red.; CHUCHUPAK, V.D., tekhm. red.

[Principles of pathological physiclogy] Osnovy pathologicheskoi fiziologii. Kiev, Gosmedizdat, USSR, 1962. 385 p.

(MIRA 15:6)

1. Akademiya meditsinskikh nauk JSSR (for Sirotin).

(PHYSIOLOGY, PATHOLOGICAL)

KAVETSKIY, Rostislav Yevgen'yevich[Kavetskyi, R.E.]; GLUZMAN, F.A., red.; RAYZ, A.L., tekhn. red.

[Tumor and the body]Opukhol' 1 organism. Kiev, Gosmediadat USSR, 1962. 298 p. (ONCOLOGY)

(ONCOLOGY)

PLOTICHER, Sarra Moise; evna; GLUZ: All, F.A., red.; CHUCHUFAK, V.D., tekhn. red.

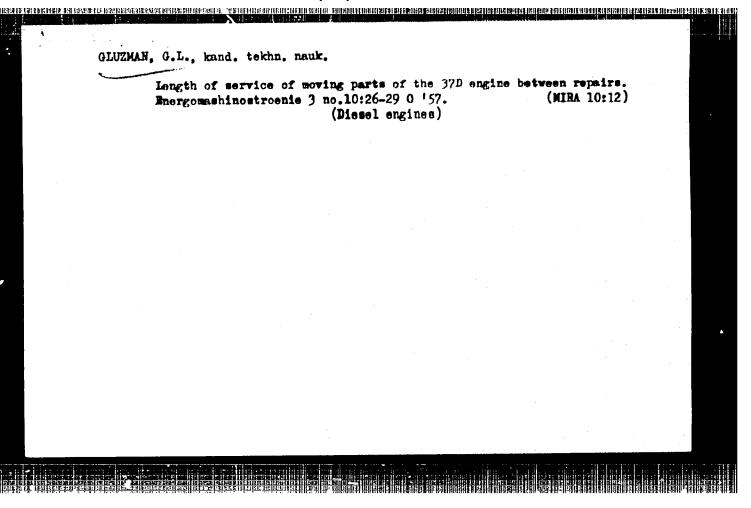
[Diagnostic laboratory studies] Laboratornye diagnosticheskie issledovania. Kiev, Gomedizdat USSR, 1962. 520 p. (MIRA 16:12)

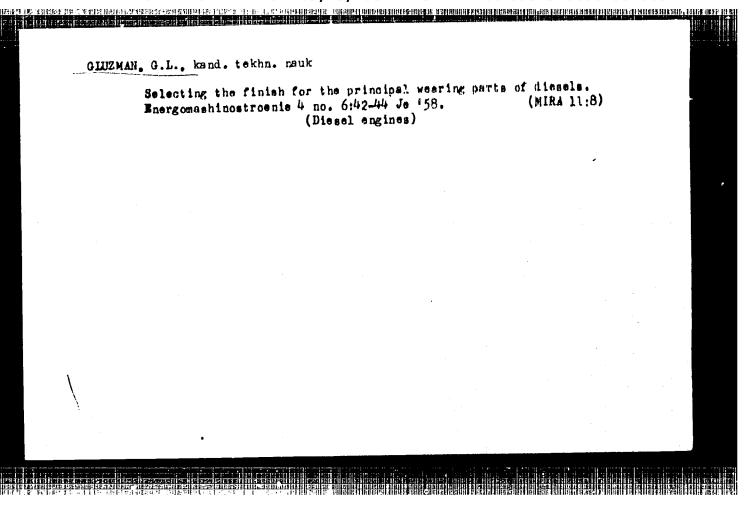
(DIAGNOSIS)

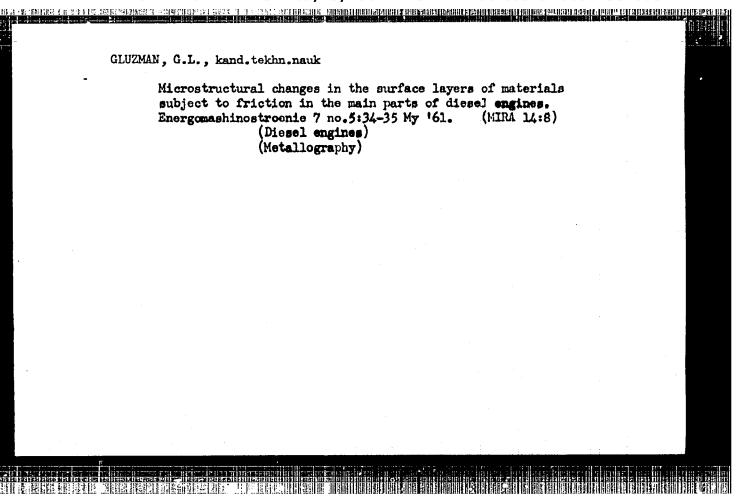
GLUZMAN, G.

This is real news; Mest.prom.i khud. promys. 3 no.1:10 Ja *63. (Mi:A 16:2)

1. Starshiy inzhener Kiyevskogo proyektno-konstruktorskogo byuro gorodskogo upravleniya bytovogo obsluzhivaniya. (Kiep—Service industries)







5/114/62/000/012/002/007 E194/E135

Gluzman, G.L., Candidate of Technical Sciences, and **AUTHORS:**

Purgin, B.A., Engineer

Assessing the reliability of power sets TITLE:

PERIODICAL: Energomashinostroyeniye, no. 12, 1962, 17-20

As power plant becomes more complicated and more highly stressed a need is felt for quantitative assessment of reliability by means of the theory of probability. The following criteria are studied:

1) "the mean time of continuous operation";

(1)

where t_i is the operating time of one particular item; of items of the particular type. This is a simple and revealing index which in effect compares the performance with that of similar plant. Its main disadvantage is that being a Card 1/3

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Assessing the reliability of ... S/114/62/000/012/002/007 E194/E135

correctly at the start and end of the time interval. This is a convenient characteristic of reliability for power equipment as it demonstrates changes of reliability with time and is easily determined experimentally. It can also be used to determine other criteria of reliability including the mean duration of repair work and the ratio of standstill time to running time. Worked examples are given of the use of these criteria in studying the performance of a diesel engine. There is a particular need for extensive service performance data, but once this is available it becomes possible to set up specific requirements in respect of the reliability of power equipment expressed in numerical terms. There are 2 figures and 1 table.

Card 3/3

GLUZMAN, G.L., kand. tekhm. nauk; HUKIN, P. Ye., inzh.-kapitan 2-go ranga, kand. tekhm. nauk

Evaluation of the serviceability of power units of surface ships. Mor. sbor. 49 no. 12:68-71 D 1 65 (MIRA 19:1)

EWT(1) TG L 29720-66 SOURCE CODE: UR/0375/65/000/012/0068/0071 ACC NR: AP6015406 AUTHOR: Gluzman, G. L. (Candidate of technical sciences); Bukin, P. Ye. (Candidate 40 of technical sciences; Engineer; Commander) ORG: none TITLE: Evaluating the operational reliability of power stations on surface craft SOURCE: Morskoy sbornik, no. 12, 1965, 68-71 TOPIC TAGS: statistic analysis, power plant, reliability theory, maine any ABSTRACT: The methods of statistical analysis are used for determining the operational reliability of shipboard power stations. The probability of dependable operation of the individual mechanisms is taken as the principal criterion for reliability. This criterion should be given by designers and implemented by industry. Reliability of the power installations is evaluated from the probability for maintaining 100% power as well as at least 75%, 50% and 25% of the rated power and finally the probability for total power loss. These criteria may be used for determining the reliability of the power stations in normal operating conditions as well as in emergency situations. An example is given showing evaluation of the reliability of a turbine boiler installation. Graphs are given which may be used to determine the probability of dependable operation of a power installation when the reliability of the individual units in the Card 1/2

installation decreases due to wear after protracted use. It is shown that the reliability of dependable operation depends on the working conditions of the installation. Therefore, these conditions should be strictly defined before a ship leaves port. Formulas are given which may be used to account for the skill of servicing personnel as well as for the average repair time and breakdown frequency. Orig. art. has: 2 figures, 7 formulus. DATE SABM: NOTE											nnel
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Card 2/2	60						··		·····		

Hides and Skins

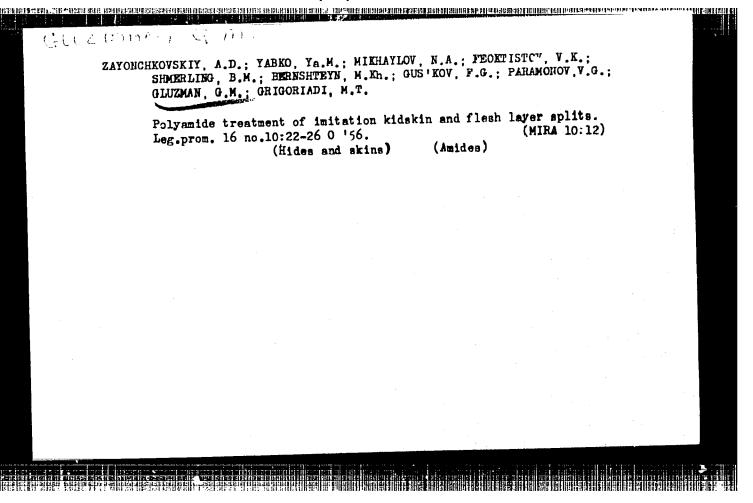
Fermentative and thermal centrel in liming hides. Leg. pres., No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1958, Uncl.

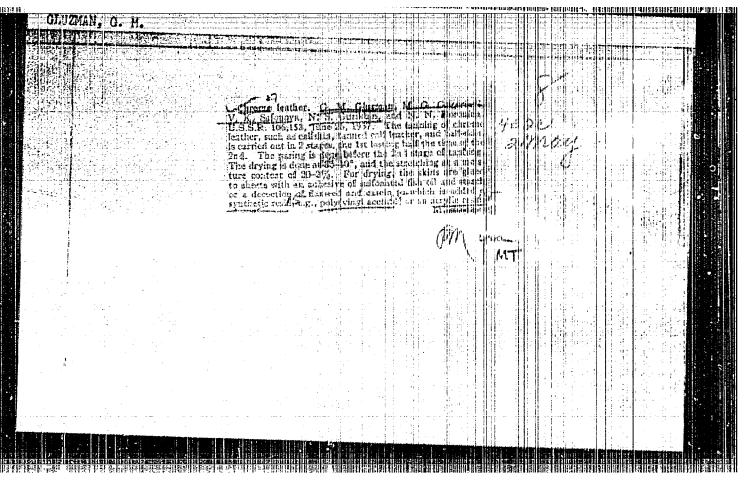
GLUZMAN, G.M., inzhener.

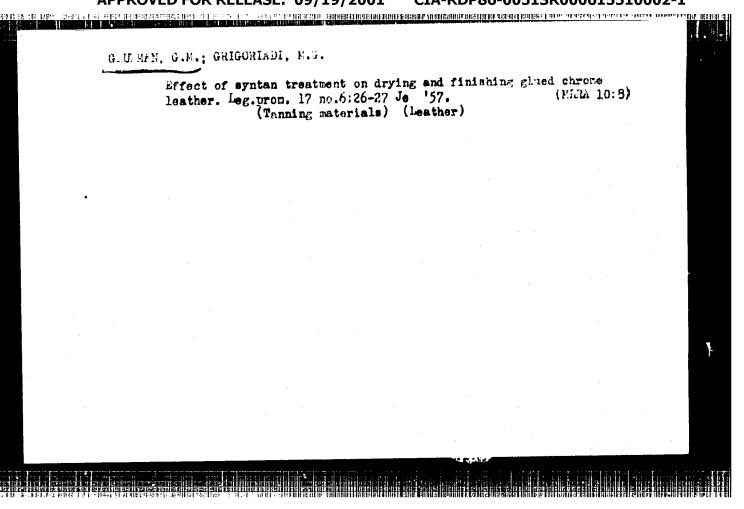
Drying leather glued on glass. Leg.pros.15 no.1:40-42 Ja 155.
(Dyes and dyeing—Leather)

(MIRA 8:3)



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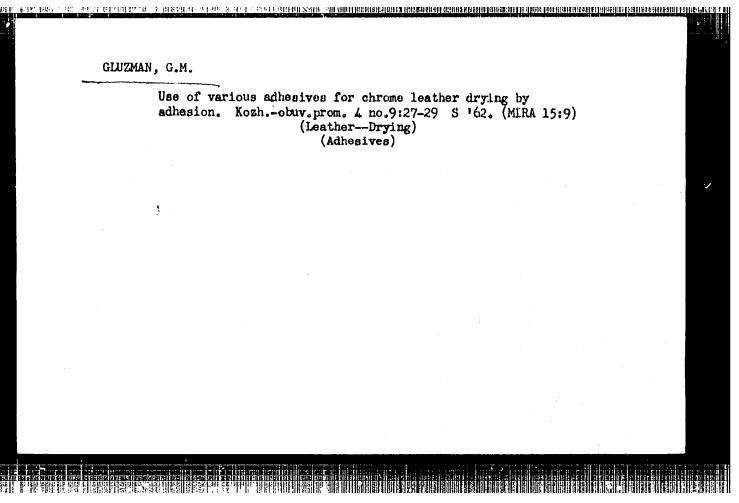


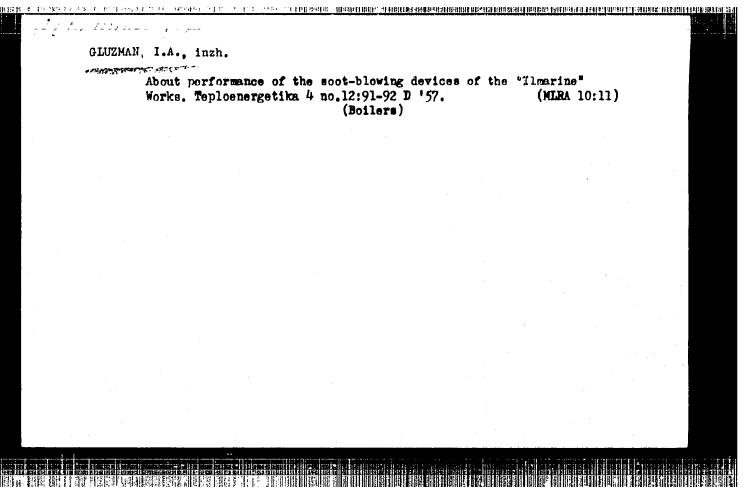
C.A.U.A.I.A., [decensed]; ZAYONCHKOVSVIY, A.P., YABKO, Ya.M.; PARINI, V.A., PARAMORCY, V.G.; GLUZMAN, G.M.; CHIGCHIADI, M.G.

Increasing water repellency in leather by means of a velan-type compound. Leg.prom. 17 no.7:23-25 J1 '57. (MIRA 10:9) (Leather Industry)

GLUZMAN, G.M., inzh.

Effect of the surface of various muterials and of the method of gluing in drying on the quality of chrome leather. Kozh.obuv. prom. 4 no.7:24-26 Jl *62. (MIRA 17:1)





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ACC NR: AP6005389 (N) SOURCE CODE: UR/OL13/66/000/001/	23
AUTHORS: Kreysler, A. A.; Gorodetskiy, K. I.; Glusman, I. A.	22
ORG: none	B
TITLE: An axial piston pump. Class 59, No. 177774	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye snaki, no. 1, 19	66, 140
TOPIC TAGS: axial pump, fluid pump	
ABSTRACT: This Author Certificate presents an axial piston pump with a surther intake and with a rotating cylinder block. The pump includes connectivith double-sided joints. One of the joints is connected with the piston other with the socket (see Fig. 1). The socket is mounted on one of the active shaft flange and transmits the pressure force of the liquid be through the hydrostatic bearing to the pump casing. The design reduces the and increases the pump efficiency. The axial holes in the drive shaft flat clear through, and each socket mounted in the hole contacts its flat face with the casing or is connected with a fixed part of the casing. Each socal recess in its flat face and is connected by axial channels to the connected and the piston and to the proper operating chamber. This arrangement proving	ng rods and the exial holes eeing pumped ee leakage ange run directly eket has
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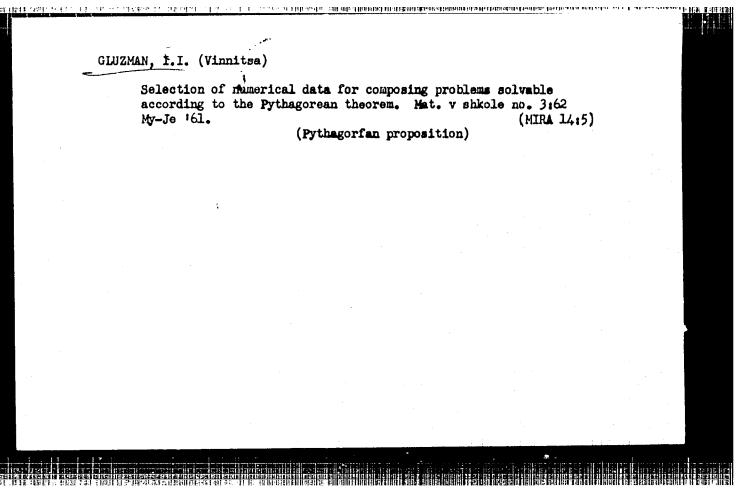
Fig. 1. 1 - cylinder block; 2 - connecting rods; 3 - pistons; 4 - socket; 5 - drive shaft; 6 - recess in the socket

TO THE TRANSPORT OF THE

individual hydrostitic bearing of each piston and the correspondence between the back pressure in the bearing and the pressure in the operating chamber. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 02Jun62

Card 2/2 EV

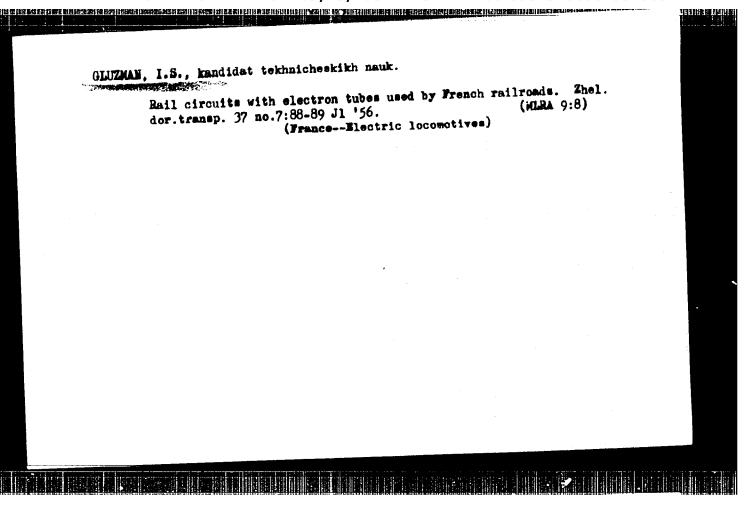


OLUZMAN, I.S., kendidat tekhnicheskikh nauk, redaktor; KALININ, V.K.,
IREMener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Signaling, central control and block systems of foreign reilroads;
a collection of articles] Ustroistva STeB sarubenhnykh zheleznykh
dorog; abornik statei. Moskva, Gos. transp. zhel-dor. izd-vo, 1956.
131 p.

(Railroads--Signaling)

(Railroads--Signaling)



GLUZMAN, I.S., kand.tekhn.nauk, red.; GHEKMENEV, N.M., insh., red.;

BOBROVA, Ye.W., tekhn.red.

[How methods in signal, central control, and blocking systems for reilroads in other countries; a collection of articles] Novata tekhniks STaB na sarubeshnykh shelesnykh dorogakh; sbornik statei.

tekhniks STaB na sarubeshnykh shelesnykh dorogakh; sbornik statei.

Moskva, Gos. transp.shel-dor. isd-vo, 1957. 129 p. (MIRA 11:5)

(Reilroads)

GLUZMAN, I.S.; KARNYUSHIN, L.V., dotsent.

System of pneumatic transportation of steel specimens in metal.
lurgical plants. Zav. lab. 23 no.4:502-503 '57. (MLRA 10:6)

l. Master Beresnyakovekogo montashnogo upravleniya treeta "Uralelektromontash" (for Glusman). 2. Zaveduyushchiy kafedroy elektrifikatsii promyshlennykh predpiyatiy L'vovskogo politekhnicheskogo instituta (for Karnyushin).

(Pneumatic-tube transportation)

OLUZNAR, Il'ye Samoylovich, kend.tekhn.nauk; MOSHIETERVA, I.I., red.;

[English-Enssisn dictionery on reilroad signaling and communication]

[Anglo-rusekti slover' po shelesnodoroshnoi avtomation.

cation] Anglo-rusekti slover', gos. izd-vo fisiko-matem. lit-ry.

telemekhanibe i svissi. Moskva, Gos. izd-vo fisiko-matem. lit-ry.

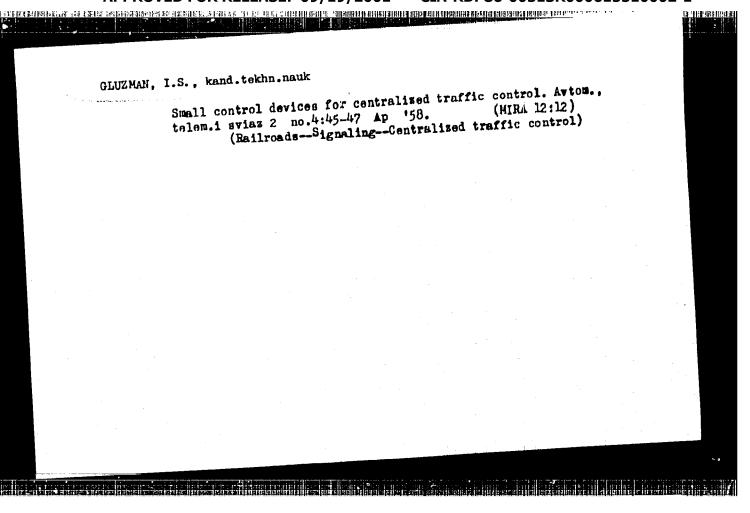
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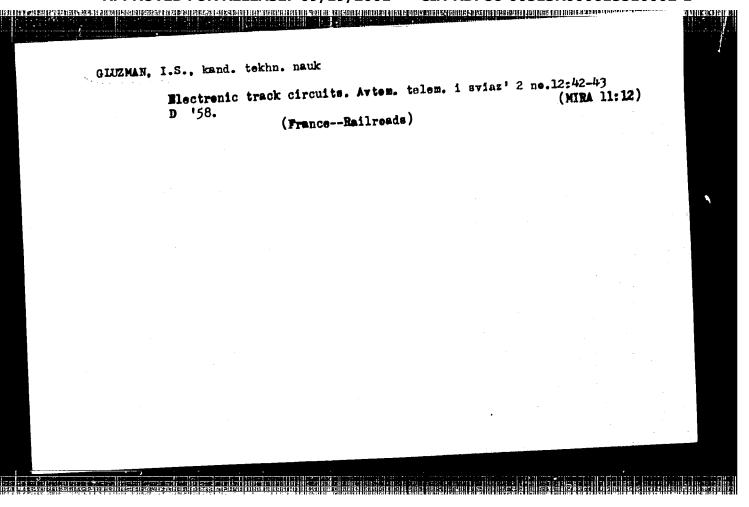
1958. 427 p.

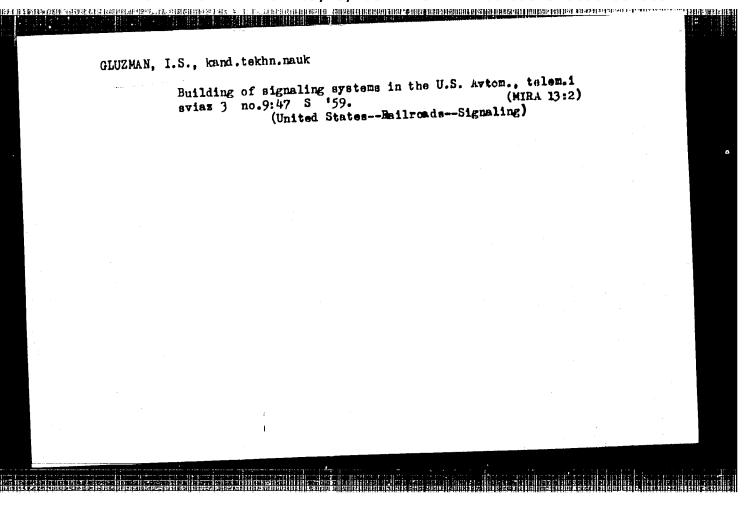
(Railroad engineering--Dictionaries)

(English language--Dictionaries--Enssian)

(Railroads--Signaling)







GLUZMAN, I.S., kand.tekhn.nauk; MARENKOVA, G.I., inzh., red.;

BOBROVA, Ye.N., tekhn.red.

[New developments in automation and remote control on foreign
railroads; translated articles] Novoe v automatike i telemekhanike
na zerubezhnykh zheleznykh dorogakh; perevod atatei. Moskwa,
Vses.izdatel'sko-poligr.ob*edinenie M-vs putei soobscheniis, 1960.

(MIRA 1):11)

(Railroads-Electronic equipment)
(Remote control)

(Automatic control)

CIA-RDP86-00513R000615510002-1 "APPROVED FOR RELEASE: 09/19/2001

GLUZMAN, 1.5 ALATORTSEV, S.A., prof., doktor tekhn.nauk; AMPREYEV, A.V., kond.tekhn. nouk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; EELOUSOV, V.G., inzh.; VINHITSKIY, K.Ye., kand.tekhn.neuk; VLASOV, V.M., inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.; GLUZMAN, I.S., kand. tekhn. nauk; GUR'YHV, S.V., kand. tekhn. nauk [deceased]; DEMIN, A.M., kand.tekhn.nauk; TRGURNOV, G.P., kand.tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn. nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk; KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand. tekhn.nauk; MAZURCK, S.F., inzh.; MEL'NIKOV, H.V.; MUDRIK, N.G., inzh.; NIKONOV, G.P., kund. tekhn. nauk; ORLOV, Ye.I., inzh.; POTAPOV, M.G., kand. tekhn.nauk; PRISEDSKIY, G.V., inzh.; RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kend. tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.;

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SOROKIN, V.I., inzh.; STASYUK, V.N., kend.tekhn.nauk; STAKHEVICH, Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.; TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand. tekhn. nauk; FURMANOV, B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor tekhn.nauk; TERPIGOREV, A.N., glavnyy red. [deceased];

(Continued on next card)

ALATORTSEV, S.A.—(continued) Card 2.

KIT, I.K., zamestitel' glavnogo red.; SHESHKO, Ye.F., zamestitel' otv.red.; BUGOSLAVSKIY, Yu.K., red.; BYKHOVSKAYA, S.H., red.; DIOHIS'YEV, A.I., kand.tekhn.nauk, red.; KOZIN, Yu.V., red.; SOKOLOVSKIY, M.M., red.; YASTREBOV, A.I., red.; DEMIDYUK, G.P., kand.tekhn.nauk, red.; KRIVSKIY, M.N., kand.tekhn.nauk, red.; LYUBIMOV, B.N., inzh., red.; MOLOKANOV, P.L., inzh., red.; REISH. A.K., inzh., red.; RODIONOV, L.Ye., kand.tekhn.nauk, red.; SLA-VUTSKIY, S.O., inzh., red.; TRAKHMAN, A.I., inzh., red.; TRYMOV-SKIY, L.G., inzh., red.; FIDELEV, A.S., doktor tekhn.nauk, red.; SHUKHOV, A.N., kand.tekhn.nauk, red.; TER-IZRAEL'TAN, T.G., red.; izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

MLATORTSEY, S.A.*—(continued) Card 3.

[Mining; an encyclopedic dictionary] Gornoe dalo; entsiklopedichenkii spravochnik. Glav.red.A.M.Terpigorev. Chlony glav. pedichenkii spravochnik. Glav.red.A.M.Terpigorev. Chlony glav. pred.A.I.Baranov i dr. Moskva, Gos.nauchno-tektn.izd-vo lit-ry red.A.I.Baranov i dr. Woskva, Gos.nauchno-tektn.izd-vo lit-ry po gornomu delu. Vol.10. [Mining coal deposits by the open-cut method] Razrabotka ugol'nykh mentorozhdenii otkrytym sposobom. Redkollogila toma; N.Y.Mol'nikov i dr. 1960. 625 p.

Redkollogila toma; N.Y.Mol'nikov i dr. 1960. 625 p.

(MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Mel'nikov).

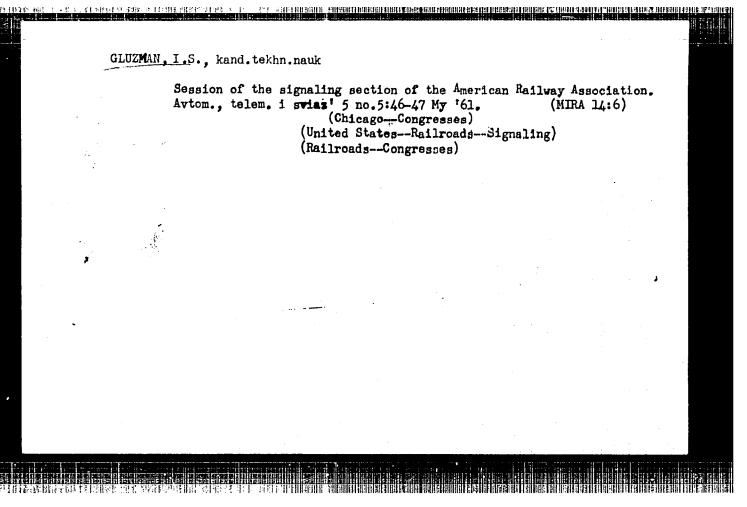
(Goel mines and mining) (Strip mining)

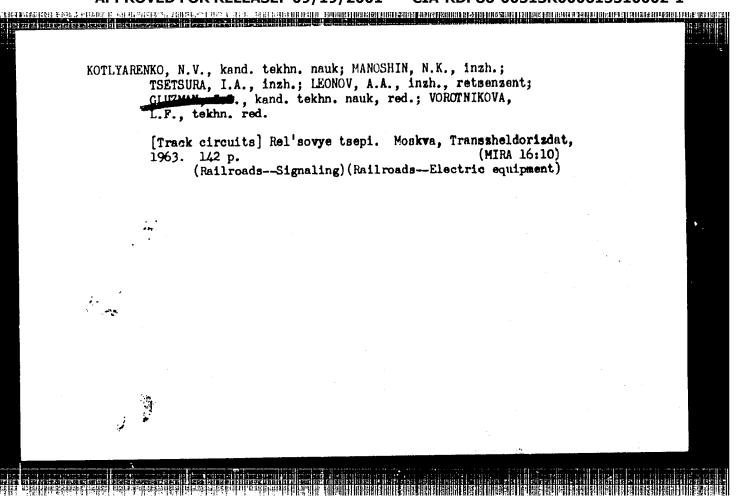
GIUZMAN, I.S., dots., kand.tekhn.nauk Signaling devices on French railroads. Avtom., telem. i sviaz' 4 no.75448 Jl 60. (MIRA 13:7) (MIRA 13:7) (France-Railroads--Signaling)

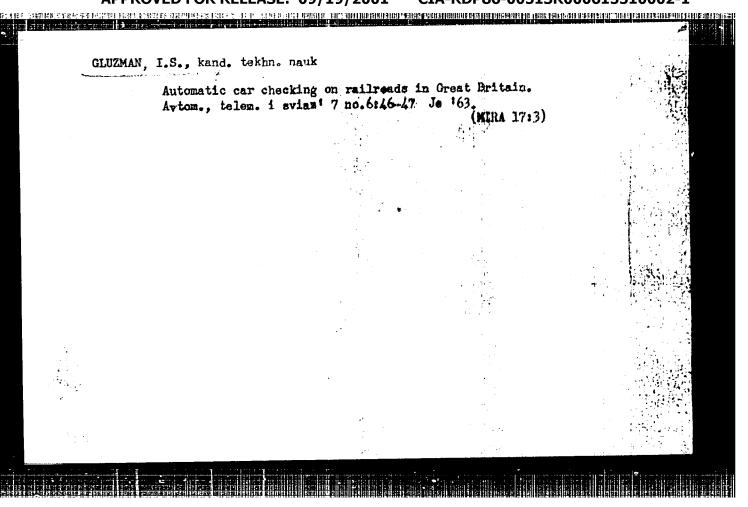
LUPAL, Nikolay Vasil'yevich; BOSIN, Matvey Itakovich; PEREBOROV,
Aleksandr Sergeysvich; SMIRHOVA, Appolinariya Vasil'yevna;
Hyler, Aleksandr Aleksandrovich; TSUKANT, T.T., kand.
tekhn,nauk, retsensent; SMUFLOV, V.I., kand.tekhn,nauk,
retsensent; GLIZMAN, I.S., kand.tekhn,nauk, red.;
USERIO, L.A., tekhn.red.

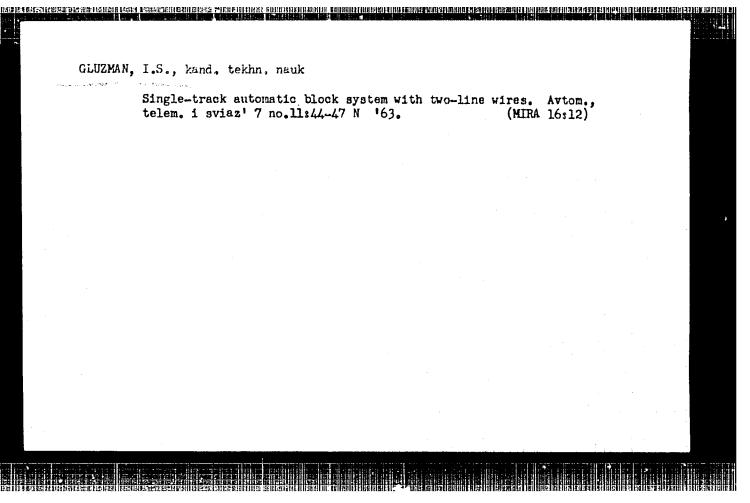
[Theoretical principles of automatic and remote control]
Teoreticheskie concovy avtomatiki i telemekhaniki. Ry N.V.
Lupal i dr. Moskva, Vses.isdatel'sko-poligr.eb'edinenie
M-va putei soobshcheniia, 1961. 414 p.

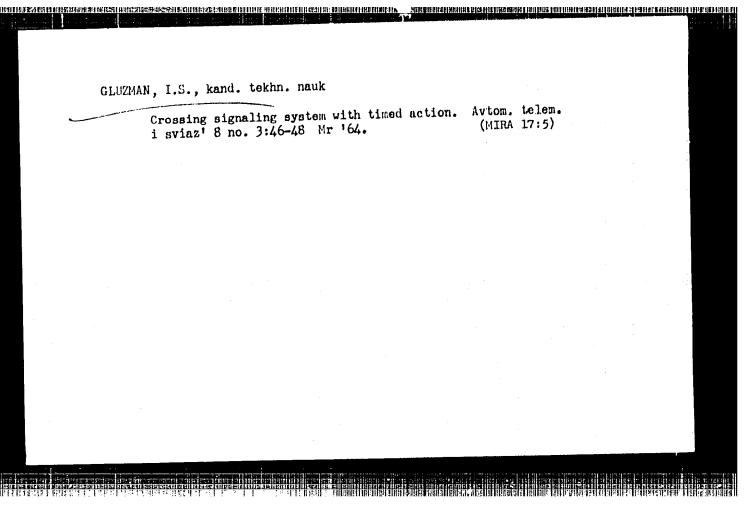
(Antomatic control) (Remote control)

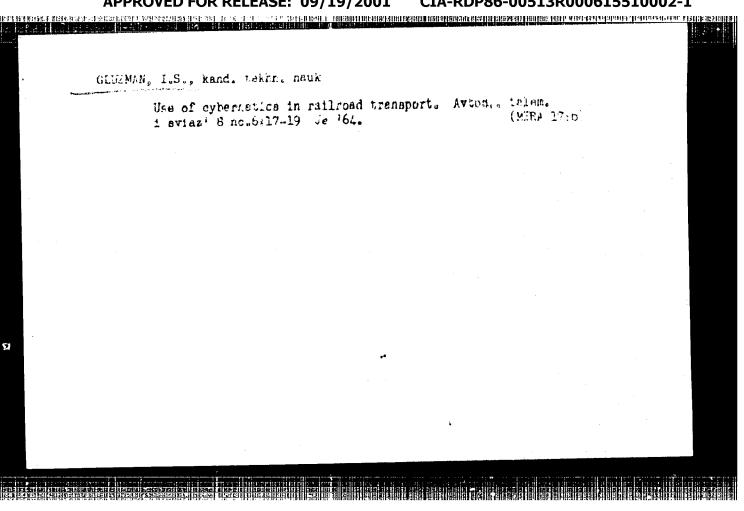












PEREBOROV. Aleksandr Sergeyevish, kand. tekhn. nauk; SEENA,
Vikto Nikolayevich, kand. tekhn. nauk; KATNIKOV,
Vladimir Dmitriyovich, inzh.; KAHVATSKIY, S.B., kand.
tekhn. nauk, retsenzent; GUZMAN, I.S., red.

[Romote control of switches and signals] Teleupravionie
strelkami i signalami. Noskva, Transport, 1965. 383 p.

(MIRA 18:8)

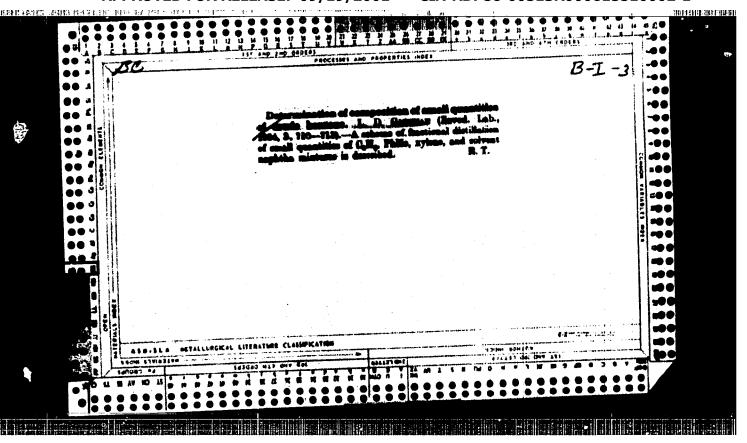
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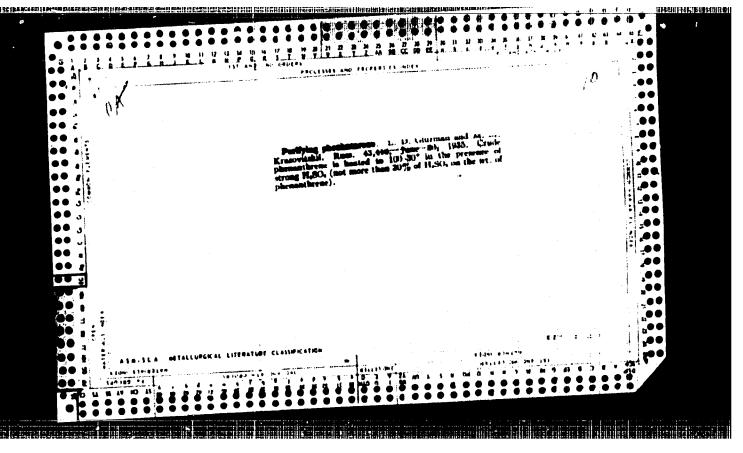
GAL PERIM, Yu.S., podpolkovnik med. sluzhby, GLUZMAN, I.S., mayor med.sluzhby

Case of prolonged retention of a contrast medium in the nasolacrinal canal. Oft.zhur. 13 no.5:306-307 '58 (MIRA 11:10)

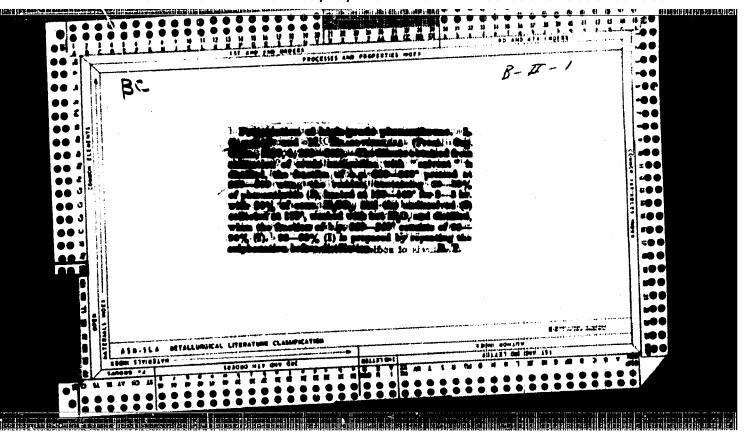
l. Iz Laringo-oto-rino kafedry im. prof. V.I. Voyacheka i kafedry oftal'mologii (nach. - prof. B.L. Polyak) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.

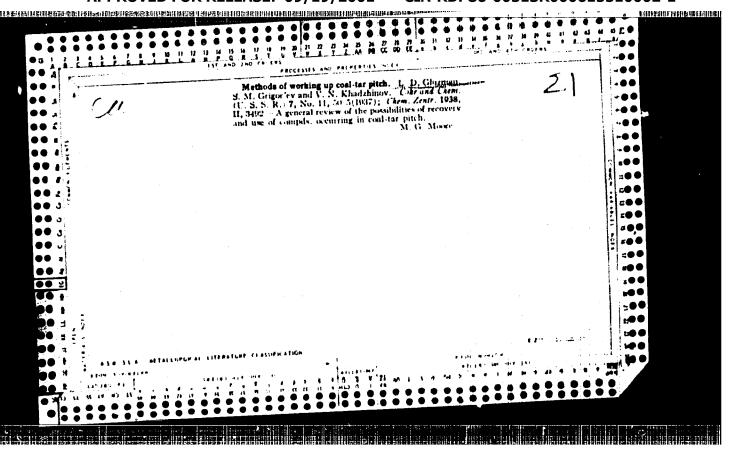
(LACRIMAL ORGANS--RADIOGRAPHY)

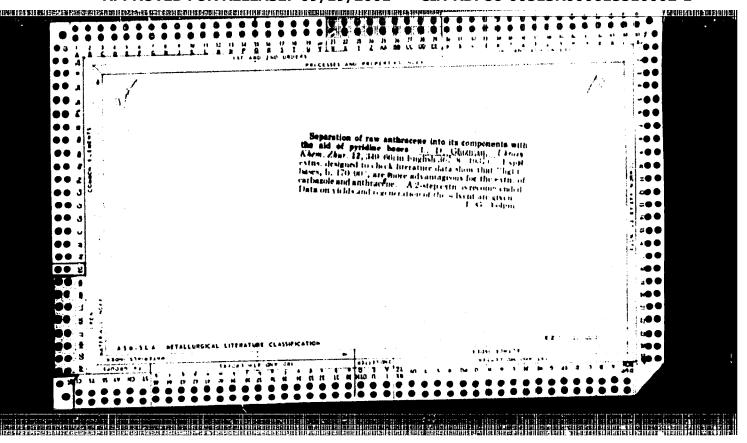


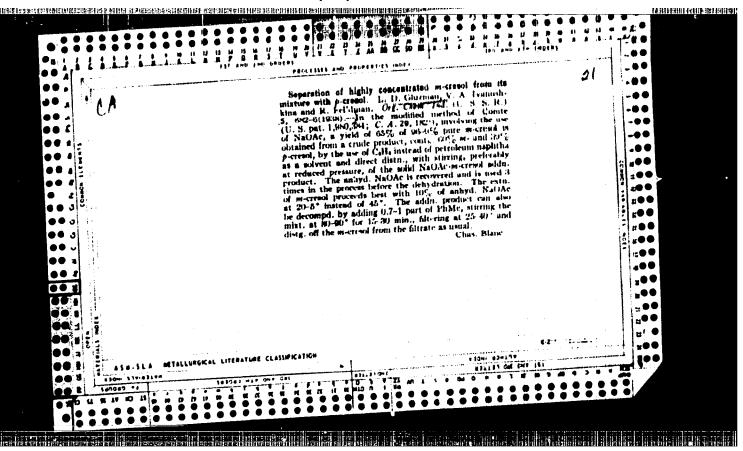


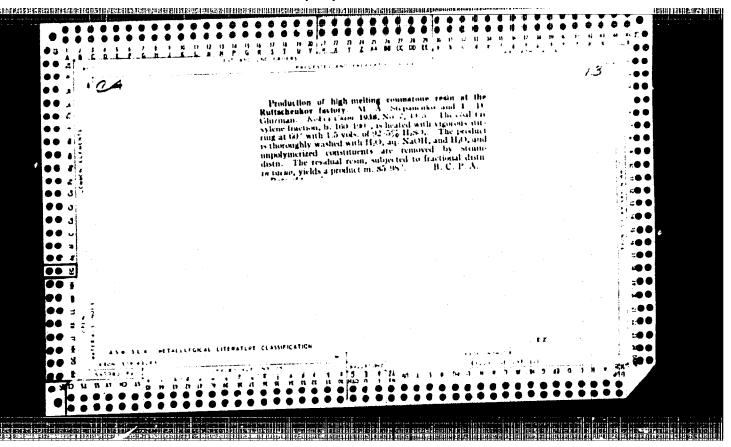
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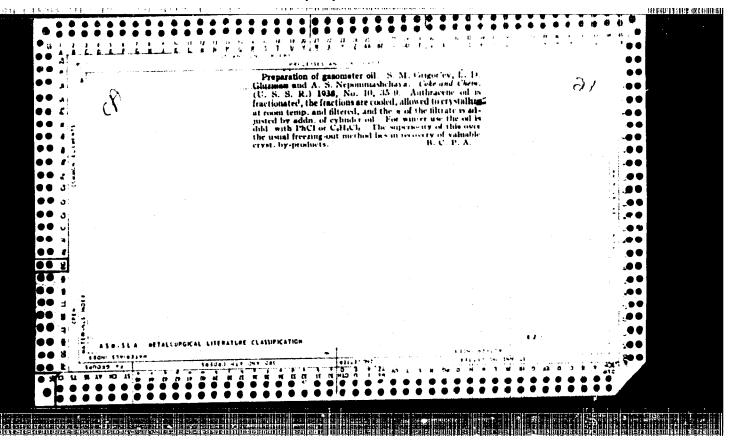


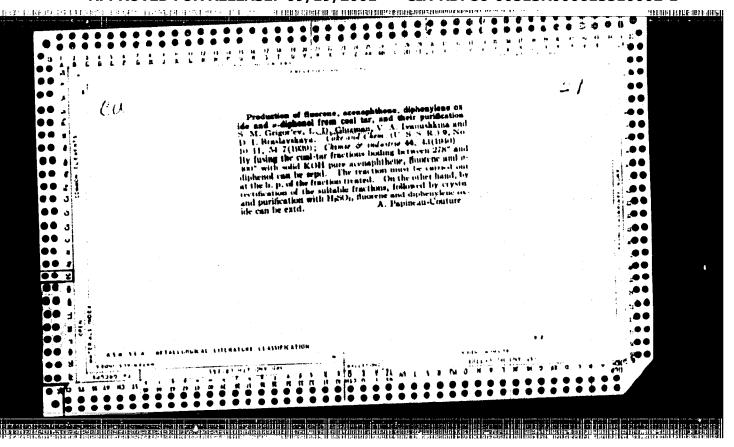


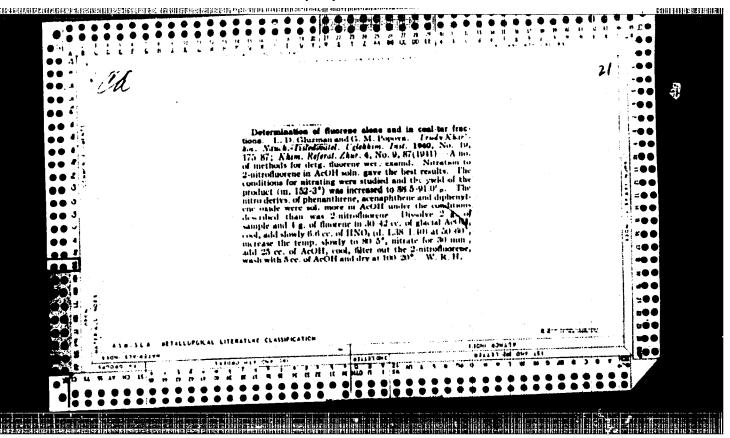


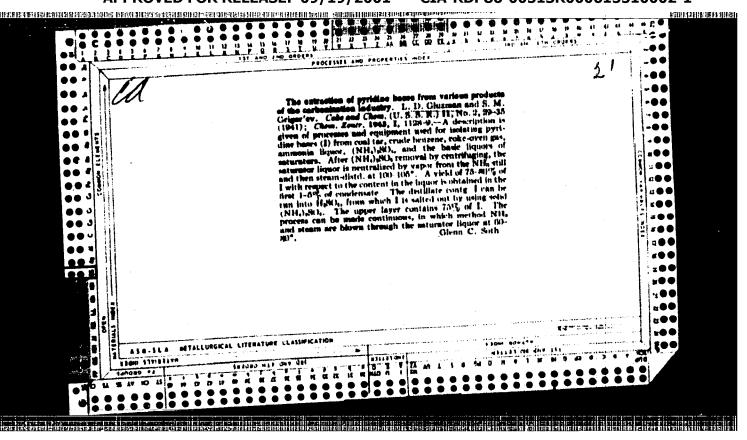


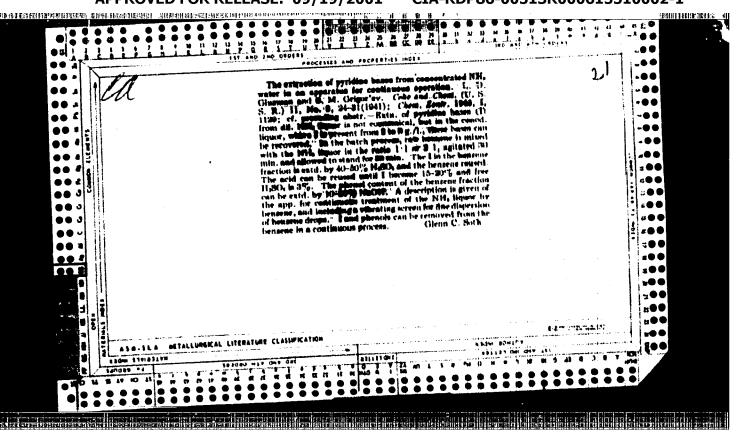


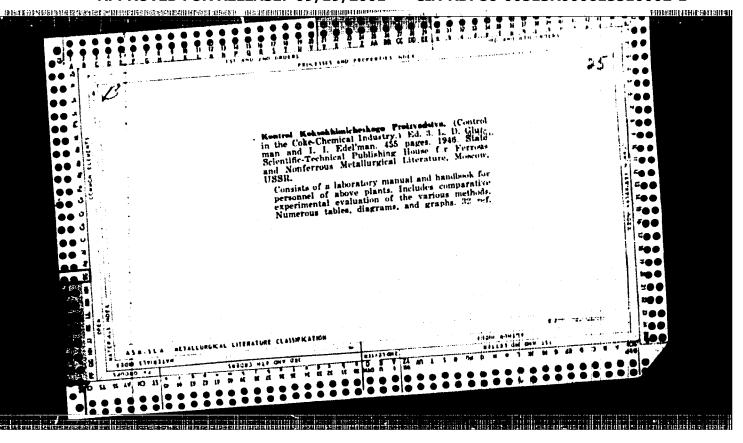


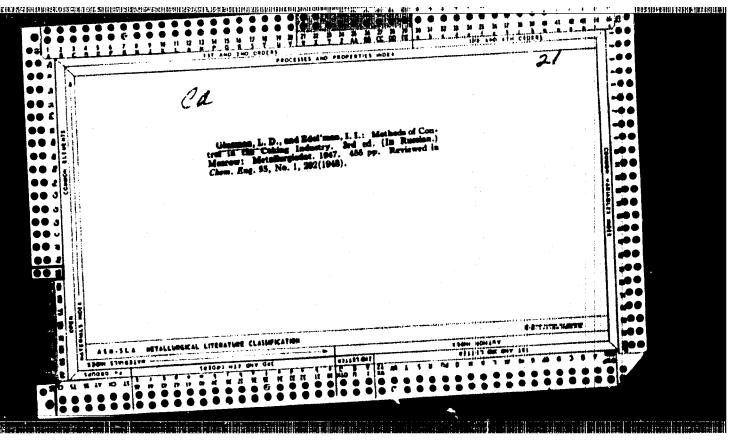


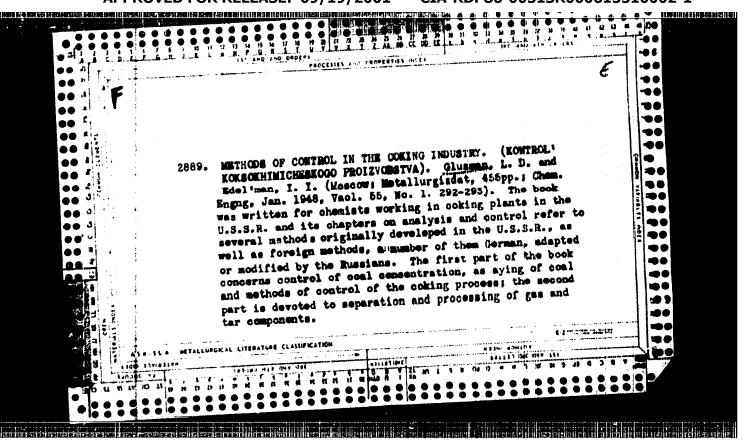


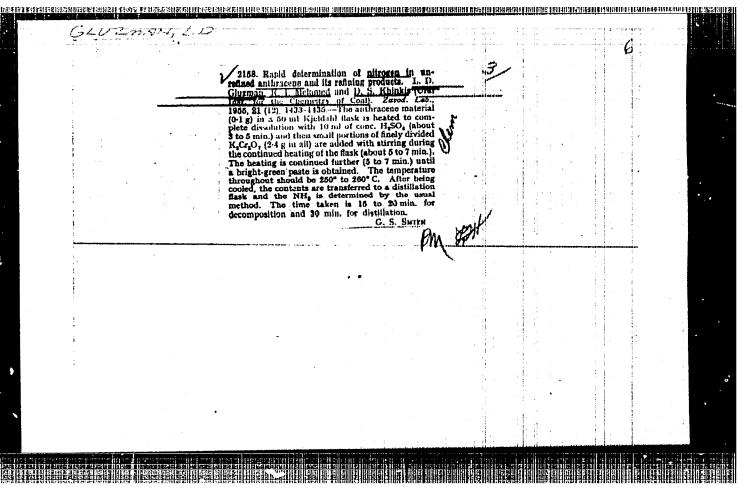










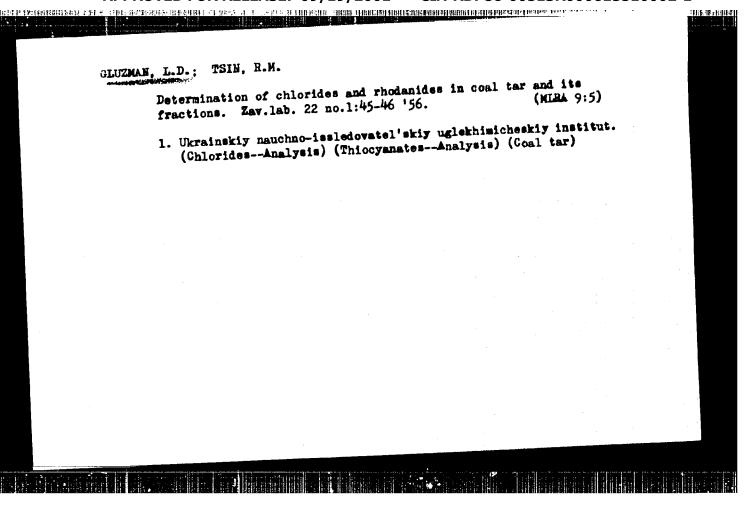


LITVINENKO, M.S.; NOSALEVICH, I.M.; GLUZMAN, L.D.; GIRMEL'SHTEYN, T.Ye.; KOLTUN, R.M.

Tasks of the byproduct coking industry in augmenting the number of coke-oven by-products. Koks i khim. no.3:41-45 '56. (MLRA 9:8)

1. Ukrainskiy/uglekhimicheskiy institut (for Litvinenko, Mosalevich, Gluzman); 2. Giprokoks (for Gimmel'shteyn); 3. Khar'kovskiy koksokhimicheskiy savod.

(Coke industry)



BUZMAN, Igubov' Davydovna; EDEL'MAH, Ita Iosifovna; FOSS, E.I., otvetstvenny redsktor; SISTAVSKAYA, Ye.K., redaktor izdatel'stva; LIB. slau, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Laboratory control of the by-product coke industry] Laboratornyi kontrol' kokaokhimichaskogo proisvodatva. Izd. 4-oe, perer. i dop. Khar'kov. Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 635 p.

(Coke industry)

GLUZMAN, L.D.

AUTHOR: Gluzman, L.D.

66-1-14/21

TITLE:

Flash Evaporation of Coal Tar. (Odnokratnoye ispareniye

kamennougolnoy smoly)

的表現 其文 医科斯斯 医香料 经被标题 使打架 排售 作 門區 电自动线线 绝流的 医新耳科氏病 里拉斯克克尔 LETTE 计规则用的可能 [1] 原始 [4] ,阿时期间 针针形面 他们是几种是一种人

PERIODICAL: Koks i Khimiya, 1957, No.1, pp. 45 - 49 (USSR)

ABSTRACT: Flash evaporation curves (relationship between the temperature of evaporation and the proportion of distillate obtained) for coal tars produced on the Zaporozhskiy and Gorlovskiy ned) for coal tars produced on the Zaporozhskiy and Gorlovskiy coke Oven Works were determined. The apparatus used was similar to that described in Ref.2. Characteristics of coal tars investigated are given in Table 1 and their flash evaporation curves in Fig.1. The yield of phenols, bases and naphthalene are given in Table 2 and Fig.2. The distribution of fractions of coal tar between the distillate and pitch during flash evaporation at various temperatures (300 - 405 °C) is given in Table 3. Analyses of pitch produced during flash evaporation of coal tar from the Zaporozhskiy Works (for 1954) is given in Table 4. The dependence of softening temperature of pitch on the percentage of distillate and the temperature of flash evaporation is shown in Fig.3, and their content of toluene insoluble and free carbon in Fig.4. The dependence between the softening temperature of pitch (y) and the temperature of flash evaporation (x) can be expressed by an equation

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Flash Evaporation of Coal Tar.

68-1-14/21

y = 0.835x-250. x and y in °C). The equation holds within flash evaporating temperatures 300 - 420 °C. The dependence of the percent content of toluene insoluble substances in pitch (y) on the flash evaporation temperature (x) can be expressed by an equation y = 0.715x - 46.5. The results of the investigation indicated that within the temperature range 300 - 400 °C, the flash evaporation curves for tars from both works practically coincide and are represented by a straight line. An increase in flash evaporation temperature up to 440 °C (and generally above 410 °C) leads to losses of phenols and does not increase the yield of naphthalene. A complete recovery of technically useful phenols and naphthalene in the distillate takes place at a flash distillation temperature of 380 - 400 °C. With increasing flash evaporation temperature above 380 °C, the content of high boiling components in the distillate increases which leads to a deterioration in the quality of anthracene oil. The data obtained confirm the expediency of collection of we anthracene fractions for the production of a good-quality product for preserving railway sleepers and a raw anthracene. There are 4 tables, 5 graphs and 3 Slavic references.

ASSOCIATION: UKhin

AVAILABLE: Library of Congress Card 2/2

APPROVED FOR RELEASE: 09/19/2001

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510002-1 DESCRIPTION OF A FREE PROPERTY OF A STATE OF

68-58-4-10/21 Gluzman, L. D. AUTHOR:

The Production of High Concentration Anthracene and Carbozole from Raw Anthracene by Recrystallisation from TITLE: Solvents (Polucheniye vysokoprotsentnykh antratsena

i karbazola iz syrogo antratsena perekristallizatsiyey

iz rastvoriteley)

PERIODICAL: Koks i Khimiya, 1958, Nr 4, pp 35-42 (USSR)

ABSTRACT: On the basis of literature data and previous work on the subject carried out by UKhIN the author proposed a scheme for the beneficiation of raw anthracene with a mixture of pyridine bases and toluene (a diagram is given). The

scheme was designed on the basis of the following considerations: a) Raw material - redistilled raw anthracene containing 25-30% of anthracene, 10-15% of carbozole; 95% of the product boils out to 350°C (the temperature corrected). b) Solvent: a mixture of light pyridine bases (mainly pyridine) with toluere in a ratio of 1:1 by weight. Bases should boil out to 200°C. The amount of solvent is calculated as 7.5 - 8 parts per part of carbozole in the

raw anthracene. c) The apparatus and the course of

Card 1/2

The Production of High Concentration Anthracene and Carbozole from Raw Anthracene by Recrystallisation from Solvents

beneficiation are shown in the diagram.

There are 5 tables, 1 figure and 4 references, all of which are Soviet.

ASSOCIATION: UKhin - Ukrainskiy valekaitakueskiy institut

- 1. Anthracenes--Production 2. Carbazolss--Production
- 3. Anthracenes--Crystallization 4. Carbazoles--Crystallization
- 5. Organic solvents--Performance

Card 2/2

Gluzman, L.D. AUTHOR:

sov/68-58-2-11/20

TITIE:

The Production of Phenanthrene of Various Degrees of

Purity (Polucheniye fenantrena razlichnoy stepeni chistoty)

Koks i Khimiya, 1959, Nr 2, pp 39 - 43 (USSR) PERIODICAL:

ABSTRACT: The possibility of production of technically pure phenanthrene (70-85%) from raw anthracene, anthracene oil,

mother liquor from beneficiation of raw anthracene by

solvents, etc. was demonstrated. A method of producing

phenanthrene of any desired degree of purity from technical phenanthrene was developed. The method consists

of fusing of the technical product with 20% of solid

potassium hydroxide. The fusion takes place in two stages: at 240 - 260 °C carbozol reacts with alkali, then the temperature should be increased to 300 - 335 °C and

retained for 3 hours. On this treatment practically all the components of technical phenanthrene are transferred

into the alkali layer. After the separation of hydro-

carbon and alkali layer, the former is re-distilled in

order to separate completely alkali and coking residue. The results of alkali treatment are shown in Table 4.

In order to remove anthracene, the re-distilled product Card1/2 is fused for 3-4 hours at 130 - 140 °C with maleic

SOV/68-58-2-11/20

The Production of Phenanthrene of Various Degrees of Purity

anhydride added in a proportion of 110% of the theoretical (calculated on anthracene). Then the product is treated with 15% solution of sodium hydroxide at 100 - 105 °C in order to separate the excess of maleic anhydride. The hydrocarbon separated from alkali solution is redistilled and recrystallised twice from alcohol. The product so obtained is free from anthracene, carbozol and diphenyl-enesulphide and contains above 99% of pure phenanthrene melting at a temperature of about 100 °C. There are 4 tables and 6 references, 3 of which are English, 1 Soviet, 1 German and 1 French.

ASSOCIATION: UKhIN

Card 2/2

CIA-RDP86-00513R000615510002-1" APPROVED FOR RELEASE: 09/19/2001

S/068/60/000/010/001/001 B071/E435

AUTHORS: Gluzman, L.D., Gilyazetdinov, L.P. and

TITLE: On the Utilization of High Boiling Coal Tar Fractions

for the Production of Carbon-Black

PERIODICAL: Koks i khimiya, 1960, No.10, pp.51-54

TEXT: The problem of production of an active carbon black from raw materials derived from the coking by-products and the development of technological and GOST standards for coal tar raw materials for the production of carbon black were investigated. Typical samples of coal-tar oils (creosote absorption oil; a mixture of absorption and anthracene oil; anthracene fraction II; pitch distillate) from the Kadiyevsk and Zaporozhsk Coking Works were taken for the investigation. Physico-chemical characteristics of these oils and, for comparison, of some petroleum oils are given in Table 1. Group-structural analysis of the petroleum and coal tar oils was calculated by the methods given in earlier works (Ref. 3 and 4). The product of the total number of benzene rings in the molecule and the content of carbon in the aromatic structures, named "aromatization factor" Card 1/4

S/068/60/000/010/001/001 E071/E435

On the Utilization of High Boiling Coal Tar Fractions for the Production of Carbon-Black

(A=KoCa) was conditionally taken as the main physico-chemical characteristic of the raw materials. This index at $Ca \leqslant 85\%$ characterizes the influence of the chemical composition of the raw material on the yield and properties of carbon black. coal-tar oils for the production of anthracene carbon black was carried out on an experimental plant with a throughput of 10 kg/hr under the following conditions: consumption of coke-oven gas for the carburization of oils - 10 m3/kg; the temperature of carburized mixture - 360 to 380°C; the distance between burners and precipitating surface - 46 mm; overflow of tar from the carburettor - 6 to 9% on the starting raw material. experimental samples of carbon-black did not differ substantially in their physico-chemical and physico-mechanical properties and corresponded to the requirements of GOST 7885-56. of carbon-black from the individual oils are given in Table 2. Testing of the oils for the production of active furnace carbonblack was carried out on a pilot plant NIIShP, described in Ref.5. Card 2/4

S/068/60/000/010/001/001 E071/E435

On the Utilization of High Boiling Coal Tar Fractions for the Production of Carbon-Black

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Card 3/4

Technological conditions were kept the same for all types of raw materials; throughput was 20 kg/hr with an air consumption of 6.5 m³/kg, the temperature of the process varied from 1200 to 1300°C depending on the type of raw material. The experimental results are given in Table 3. It was found that coal tar oils in 79 to 92% consist of di- and tri-cyclic aromatic hydrocarbons. The most aromatized is pitch distillate. The yield of active anthracene carbon-black increases with increasing number of rings in the molecule and the content of aromatic carbon in the raw Anthracene fraction and pitch distillate present a material. high-quality raw material for the production of active anthracene The yield, specific surface and oil number of carbon-black. active furnace carbon black increase with increasing number of rings in the molecule and the content of carbon in aromatic structures of the raw material. In order to obtain moderately structurized carbon-black more suitable for rubber than highly structurized black) absorption creosote oil, anthracene oil, anthracene fraction and mixtures of pitch distillate and

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	promyshlennosti (S <u>Tyre Industry</u>) Gi Kadiyevskiy sazhev <u>Works</u>) Molchanov,	llyazetdinov, L.P. ryy zavod (Kadiyev	Š	
ard 4/4				

S/068/61/000/001/001/001 E071/E235

AUTHORS:

Gluzman, L. D., Nikitenko, A. G. and Tsin, R. M.

TITLE:

Production of Technical Pyrene

PERIODICAL:

Koks i khimiya, 1961, No. 1, pp. 52-55

TEXT: Pyrene is one of the important raw materials for the production of dyes and for this reason, the authors carried out an investigation of the potential resources, methods of separation and treatment of narrow pyrene fraction suitable for the preparation of products of various qualities from coal tar. In the USSR the coal tar is treated mainly on continuous plants for the production of a standard medium temperature pitch. The production of a high temperature pitch is done not by team distillation, but by oxidation with air. Therefore, the raw materials for the production of pyrene are not "steam" but "air" pitch distillates. The pitch distillates (from the Zaporozh'ye Coking Works) taken for the investigation had the following properties: s.g. 1.120 at 20°C, pyrene content 4.85%; beginning of boiling 140°, 10% at 280°, 19% at 300°, 30% at 336°; 40% at 355°, 52% at 382°, 60% at 393°, 72% at 410°, 80% at 421°C. The distillates were fractionated on a

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5/068/61/000/001/001/001 E071/E235

Production of Technical Pyrene

laboratory column equivalent to 13-15 theoretical plates. distillation, two narrow pyrene fractions were collected: 384-388°C amounting to 6.5% of the initial pitch distillate. containing 33.0% of pyrene and 2) 388-395°C amounting to 8% and containing 48.2% of pyrene. The raw pyrene fractions were submitted to recrystallisation from various solvents. Optimum results were obtained from 30% aqueous pyridine and 30% alcoholic solution of solvent naphtha. The crystallisation conditions and results obtained are tabulated. It was found that recrystallisation of raw pyrene fractions containing less than 40% of pyrene give a mixture of pyrene with fluoranthen, which cannot be further enriched by this method and repeated recrystallisations lead only to losses of pure products, e.g., after four recrystallisations of fraction containing 27% of pyrene a product containing about 45% of pyrene was obtained with pyrene recovery of 58.4%. Subsequent Fractions containing 40% recrystallisations were ineffective. and more of pyrene can be easily enriched to 75-80%. The more concentrated is the initial pyrene fraction, the more concentrated

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APPROVED FOR RELEASE: 09/19/2001

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Production of Technical Pyrene

for the production of carbon black. The technological scheme for the production of technical pyrene is diagramatically shown in the text. There are 3 tables, 1 figure and 7 references: 3 Soviet and 4 non-Soviet.

ASSOCIATION: UKhIN

Card 4/4

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27069 s/080/61/034/003/010/017 A057/A129

AUTHORS:

Gluzman, L. D., Nikitenko, A. G.

TITLE:

Concerning the question of fluoranthen separation

PERIODICAL: Zhurnal prikladnov khimii, v. 34, no. 3, 1961, 626 - 628

TEXT: A method for the separation of fluoranthen from coal-tar pitch distillates or an anthracene oil fraction is described. According to data obtained in the institute of the present authors coal-tar contains about 3.5% of fluoranthen and the companion compound pyrene in an amount of up to 1%. Several methods for separation of fluoranthen and separation of the latter from pyrene are described, e.g., in publications by 0. Kraber et al. [Ref. 1: Erdöl und Kohle, 9, 637 (1955)], P. P. Karpukhin and N. M. Slominskiy [Ref. 7: Koks i khimiya, 10, 41 (1938)], and J. Szuba [Ref. 8: Przem. Chem., 12, 6, 316 (1956)]. The method described by 0. Kruber was successfully proved by the present authors. Only the use of fluoranthen for production of intermediates and dyestuffs is mentioned in literature. The present authors assume that fluoranthen could be used similtaneously with other aromatic hydrocarbons as raw material in the production of synthetic resins of the type based on authracene, naphthaline etc. such as described by

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27069 S/080/61/034/003/010/017 A057/A129

Concerning the question of fluoranthen separation

Wegler. It is also stated that almost the whole processing of coal-tars in the USSR occurs by a continuous method producing a pitch with a softening point of about 70°C which is converted by "air oxidation" and not "steam treatment" to a high-melting (150°C) product. Therefore the method described by the Polish authors [Ref. 8: Przem. Chem., 12, 11, 610 - 616 (1956)] is not suitable for the USSR, and in the present experiments only "air-oxidized" coal-tar pitch distillates and anthracene oil fractions were investigated (Table 1). The experiments were carried out under the assistance of T. A. Davydova. The pitch distillates were rectified on a 2 m column (diameter 40 mm) with an efficiency of 13 - 15 theoretical plates, at atmospheric pressure, and the fraction boiling at 370 - 385°C was witndrawn with a 5.7% yield containing 68% fluoranthem. From anthraceme oil II the yield of the fluoranthen fraction was 14.5% with a fluoranthen content of 75% and a pyrene content of 21%. These fractions were recrystallized from ethanol, methanol, white spirit, pyridine, 30% pyridine, solvent, a mixture of 30% solvent and 70% ethanol, toluene, xylene or gasoline. Beet results were obtained with the 30% aqueous solution of pyridine, gasoline and the mixture 30% solvent + 70% ethanol. (Table 2). If the ratio fluoranthen : pyrene is 3.5 : 1, a third recrystallization is necessary giving only a 15 - 25% fluoranthen yield. Anthracene cil II is a better raw

Card 2/5

Concerning the question of fluoranthen separation

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material than the coal-tar pitch distillates. After a threefold recrystallization a 99 - 100% fluoranthen (melting point 109.200) with a 4% yield in relation to the anthracene oil II was obtained. A beennological scheme for the production of fluoranthen according to the present results is tested presently. There are 2 tables and 9 references: 3 Seviet-blec and 6 non-Soviet-bloc. The references to the English-language publications read as follows: M. C. Kloetzel, Holly E. Mertel, J. Am, Chem. Soc., 72, 4786 (1950); Th. Holbro, J. Appl. Chem., 3, 1 - 9 (1953).

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ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy uglekhimicheskiy institut (Ukrainian Scientific Research Institute of Coal Chemistry)

April 12, 1960

Card 3/5

CONTROL AND AND A CONTROL OF A STATE OF THE ADMINISTRATION OF A STATE OF A ST

8/081/62/000/014/023/039 B166/B144

AUTHORS:

Molchanov, B. A., Gluzman, L. D., Gilyazetdinov, L. P.,

Chaykun, K. I.

TITLE:

Pitch listillate, a new form of raw material for the

production of carbon black

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1962, 532, abstract 14M2O4 (Vestn. tekhn. i ekon. inform. N.-i in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii, no. 12, 1961,

23 - 24)

TEXT: Industrial test results for a trial batch of pitch distillate (PD) are given, this being got by oxidizing and coking coal-tar pitch to form a highly aromatized product used in the manufacture of carbon black. The industrial process for producing the carbon black is practically the same as when producing spray burner black from anthracene fraction. It is established that both these forms of carbon black have the same physicochemical properties but the yield of the carbon black from PD is 2.3% higher. The experimental carbon black fulfils the requirements of

Card 1/2

Fitch distillate, a new form... \$\ \text{S/081/62/000/014/023/039} \\ \text{B166/B144}

foct 7885-56 (GOST 7885-56). PD dissolves well at a temperature > 50°C in green oil and catalytic gas oil; the mixtures obtained are transportable. To avoid the burners coking up in continued operation it is expedient to use PD mixed with the anthracene fraction (mixtures with a small PD content have been tested). When 5 - 10% PD is added to green oil the yield of spray burner black is increased by 3%. PD is being introduced into the production of spray burner and lamp black to replace the anthracene fraction which is in short supply. Available stocks of PD also permit of its use for partly replacing green oil. [Abstracter's note: Complete translation.]

Card 2/2

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GLUZMAN, L.D.; TSIN, R.M.; RCK, A.A.

Production of 2-vinylpyridine. Koks i khim. no.11:48-51 '61.

1. Ukrainskiy uglekhimicheskiy institut.
(Pyridine)

8/081/63/000/004/028/051 B149/B186 Gluzman, L. D., Leyba, V. S., Davidyan, D. H., Yefimenko, V. M. AUTHORS: The preparation of diphenic acid from phananthrens TITLE : Referativnyy zhurnal. Khimiya, no. 4, 1963, 461, abstract PERIODICAL: 4N78, (Sb. nauchn. tr. Ukr. n.-i. uglekhim, in-t.", no. 13 (35). 1962, 144 - 156) 🔠 TEXT: In order to develop an industrial method for the preparation of diphenic acid (I), a detailed study was made of liquid-phase exidation of both pure and commercial grade phenanthrene (II) with $H_2 \phi_2$ and $\phi H_3 COOH$ (III). The reaction was performed under various conditions with successive alteration of the parameters affecting the course of the oxidation: ratio of II, $\rm H_2O_2$ and III, concentrations of $\rm H_2O_2$ and III, temperature, duration of $\rm H_2O_2$ addition and duration of oxidation, and intensity of stimming during the addition of H2O2 and during auto-oxidation. The effect of various catalysts (such as $(NH_4)_2MOO_4$, MgSO₄, MnSC₄, CuSO₄, KHSO₄, CH₃COOM_B, (CH₃COO)₂CO₃ V205, chrome-nickel alum and others), of different sorts of steel proposed

S/081/63/000/004/028/051 B149/B186

The preparation of diphenic acid...

for the construction of the pilot plant [1x18H9T (1kh18N9T)] and 1x18H12M9T (1kh18N12M9T)], of the quality of the initial II and its admixtures were (1kh18N12M9T)], of the quality of the initial II and its admixtures were (1kh18N12M9T)], of the quality of the initial II and its admixtures were (1kh18N12M9T)], of the quality of the initial III and its admixtures by investigated. The optimum conditions were found to be; ratio (in parts by investigated. The optimum of experimental part of the yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect on the yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence of anthracene no positive effect) with a 75-80% yield of I. The presence o

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The preparation of diphenic acid	S/081/63/000/004/028/051 B149/B186
25° (10.16 g); the solubility is twice generation of III has been developed. lation.)	[Abstracter's note: Complete trans-
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ACCESSION NR: AP4009235

S/0068/64/000/001/0038/0041

AUTHOR: Gluzman, L. D.; Ruzhina, I. Ye.

TITLE: Producing phenanthrene, fluoranthene, and pyrene under commercial

conditions

SOURCE: Koks i khimiya, no. 1, 1984, 38-41

TOPIC TAGS: phenanthrene, fluoranthene, pyrene, commercial production, recovery, fractionation, anthracene oil, pitch distillate.

ABSTRACT: Plant-scale work at the Inepropetrovsk Coke-Chemical Plant on recovery of phenanthrene, fluoranthene and pyrene by fractionating anthracene oil and pitch distillates confirmed earlier data from UKhIN that anthracene oil is the optimum crude for phenanthrene and fluoranthene, and pyrene is best recovered from pitch oil. Data are presented showing the conditions for separating the individual fractions, the amounts and the yields of the desired products. Orig. art. has: 4 tables.

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RUZHINA, I.Ye.; RASHKEVICH, I.Ya.; ITKINA, R.A.; GLUZMAN, L.D.; Prinimali uchastiye: DEMCHENKO, L.G.; GOL'PERINA, R.L.

Curves of the single-stage evaporation and of the true temperatures in the boiling of raw materials for pyrene production. Koks i khim. no.3:48-52 '64. (MIRA 17:4)

1. Dnepropetrovskiy koksokhimicheskiy zavod (for Ruzhina, Rashkevich, Itkina). 2. Ukrainskiy uglekhimicheskiy institut (for Gluzman).

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	himiya, no. 8, 1965, 46-		* : : :			
ABSTRACT: To preport catalytic dehye	aphthylene, acenaphthene pare acenaphthylene of h drogenation of acenaphth	high purity, the	e authors			
BSTRACT: To prepare the catalyst quality, resence of inert arger batch-operate he pressure has a lete when the resarrier in the molroving its quality		high purity, the hene with vacuum degree of vacuum ated both under rial catalyst Knee dehydrogenation Hg. Addition	e authors m techniqu m, raw mat laborator -5 was fou ion;/the p on of nitr accompath	erial qua erial qua y condition ind to be erocess is egen as a ylene with	effect of lity, and one and of the best most come inert hour im-	f d on •
BSTRACT: To prepare the state of catalyst quality, resence of inert arger batch-operate has a lete when the reserving its quality over the state of	pare acenaphthylene of hadrogenation of acenaphthylene reaction temperature, deadditives was investigated units. The industry a marked influence on the sidual pressure is 3-10 lar ratio of 8.4:1 raise	high purity, the hene with vacuum degree of vacuum ated both under rial catalyst Knee dehydrogenation Hg. Addition	e authors m techniqu m, raw mat laborator -5 was fou ion;/the p on of nitr accompath	erial qua erial qua y condition ind to be erocess is egen as a ylene with	effect of lity, and one and of the best most come inert hour im-	f d on •

1962-66 ENT(m)/EPF(c)/EVP(j) RM CESSION NR: AP5021785 THOR: Stolyarenko, L. P.; Gluzman, L. D.	UR/0068/65/000 668.7%	/008/0046/0049	
ITLE: Chemistry and technology of acenaphthyle	ne production		
OURCE: Koks i khimiya, no. 8, 1965, 46-49		· · · · · · · · · · · · · · · · · · ·	
OPIC TAGS: acenaphthylene, acenaphthene, dehyd			
BSTRACT: To prepare acenaphthylene of high pur f catalytic dehydrogenation of acenaphthene wit	Luy, the duchors h vacuum technic	mes. The effe	ct of
f catalytic dehydrogenation of acenaphthene with atalyst quality, reaction temperature, degree of resence of inert additives was investigated bot arger batch-operated units. The industrial cat he pressure has a marked influence on the dehyd lete when the residual pressure is 3-10 mm fig. arrier in the molar ratio of 8.4:1 raises the yarving its quality. Using the K-5 catalyst at thors carried out the process in two variants:	th under laborate alyst K-5 was for progenation; the Addition of nit yield of accmaph	pry conditions ound to be the process is mos trogen as an in thylene without	, and and on best. t com- ert im- au-
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dehydrogenation and (b) dehy ter procedure proved to be hol was used to obtain high art. has: 5 tables.	ydrogenation - concent preferable. Recrystal -purity acenaphthylene	ration of ace lization from from the les	naphthylene ethyl or m s pure prod	. The la methyl alc luct. Ori	0-
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